

## REMARKS

Applicants appreciate the Examiner's allowance of Claims 1, 4, 6, 13, 16-19, 21, 24-27, 43, 44, and 46-50.

As Applicants are filing a RCE herewith, this amendment should be entered and considered by the Examiner at this time.

Applicants will now address the Examiner's remaining rejection in the Final Rejection.

### Claim Rejections - 35 USC §103

In the Final Rejection, the Examiner rejects Claims 7 and 10-12 under 35 USC §103(a) as being unpatentable over Tzeng (US 5,215,934) in view of Akbar (US 5,656,845) and Prall et al. (US 6,514,842). This rejection is respectfully traversed.

While Applicants traverse this rejection, in order to advance the prosecution of this application, Applicants are amending independent Claim 7 to recite the feature that "the concentration of impurity elements in the first region and the concentration of impurity elements in the second region are respectively between  $1 \times 10^{17}$  atom/cm<sup>3</sup> and  $1 \times 10^{19}$  atom/cm<sup>3</sup>." This feature is supported by, for example, Embodiment 1, and in particular, page 17, ln. 21 to page 18, ln. 1 in the specification of the present application.

Neither Tzeng, Akbar nor Prall disclose or suggest this claimed feature. Hence, Tzeng, Akbar and Prall do not disclose or suggest the claimed device of amended independent Claim 7. Therefore, Claim 7 and those claims dependent thereon are patentable over the cited references, and it is respectfully requested that this rejection be withdrawn.

### New Claims

Applicants are also adding new Claims 51-53. These claims are supported by, for example, Embodiment 1 of the present application. As a RCE is being filed herewith, these claims should be entered and examined at this time. It is respectfully submitted that these claims are also allowable over the cited references, and it is requested that they now be allowed.

If any fee is due for these new claims, please charge our deposit account 50/1039.

### Conclusion

It is respectfully submitted that the present application is in a condition for allowance and should be allowed.

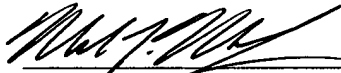
If any further fee should be due for this amendment, please charge our deposit account 50/1039.

Favorable reconsideration is earnestly solicited.

Date:

July 12, 2006

Respectfully submitted,



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